Cancer Quality Indicators



Appathurai Balamurugan, MD, MPH
Section Chief, Chronic Disease Epidemiology Section, Arkansas
Department of Health
Assistant Professor, UAMS Fay W. Boozman College of Public Health

Overview

O What are Quality Indicators?

Breast Cancer Quality Indicators

Cervical Cancer Quality Indictors

Implications

Quality Indicators

Accountability

Resource Allocation

Evaluation

History of the Quality Indicators

BreastCare Program

BreastCare Advisory Board

 BreastCare Quality Improvement committee.

Eligibility for BreastCare services (screening, diagnosis and treatment (for Medicaid category 07 ineligible women))

- AR female resident
- Age 40 years or older
- Household income at or below 200% FPL
- Underinsured or uninsured

Eligibility for Medicaid category 07 services (treatment services only)

- AR female resident
- US citizen
- Household income at or below 200% FPL
- Uninsured

BreastCare clients

- Plan A screened and diagnosed through BreastCare program state funds.
- Plan B & C screened and diagnosed through BreastCare program federal funds (75% of these clients have to be 50 years and older).
- Plan M screened and diagnosed outside of BreastCare program
- Plan A, B, C and M clients are enrolled for treatment through Medicaid category 07, and paid a lumpsome amount of \$500,000 through BreastCare program funds and the remaining treatment costs are covered through State Medicaid.

Study Population

- BreastCare clients in 2005
 - Breast cancer patients N=214 (13%)
 - Cervical cancer patients N=24 (21%)
- Non-BreastCare clients in 2005
 - Breast cancer patients N=1671
 - Cervical cancer patients N=90

Demographics of the Study Population

- BreastCare clients in 2005
 - Breast cancer patients Mean age-48, W-81%, B-17%
 - Cervical cancer patients- Mean age-44, W-89%, B-11%
- Non-BreastCare clients in 2005
 - Breast cancer patients Mean age-63, W-88%, B-10%
 - Cervical cancer patients- Mean age -52, W-78%, B-20%

Methods

- BreastCare clients from the BreastCare database were matched against the Arkansas Central Cancer Registry data to obtain their clinical outcome measures.
- BreastCare clients with false matches were excluded from analysis
 - Breast cancer patients 4% (N=11)
 - Cervical cancer patients 19% (N=7)

Breast Cancer Quality Indicators

Clinical Outcome Measures

Figure 1. Stage at diagnosis of BreastCare and Non-BreastCare clients, 2005

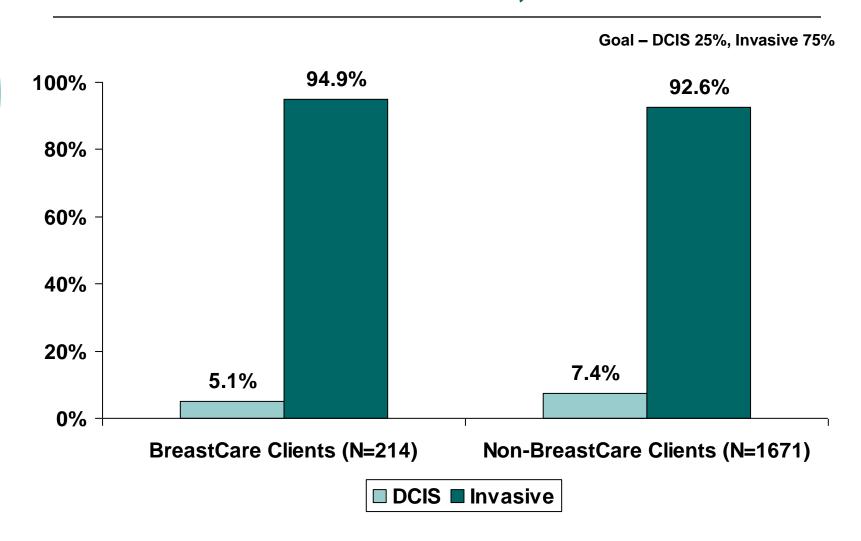


Figure 2. Stage at diagnosis of BreastCare and Non-BreastCare clients, 2005

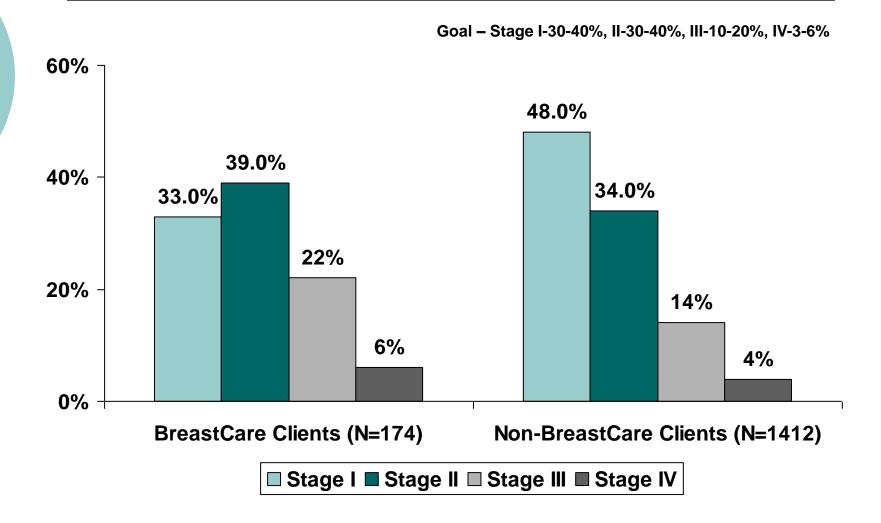


Figure 3. Time to initial cancer treatment (Surgery performed within 30 days of diagnostic biopsy) for Breast Care and Non-Breast Care clients, 2005

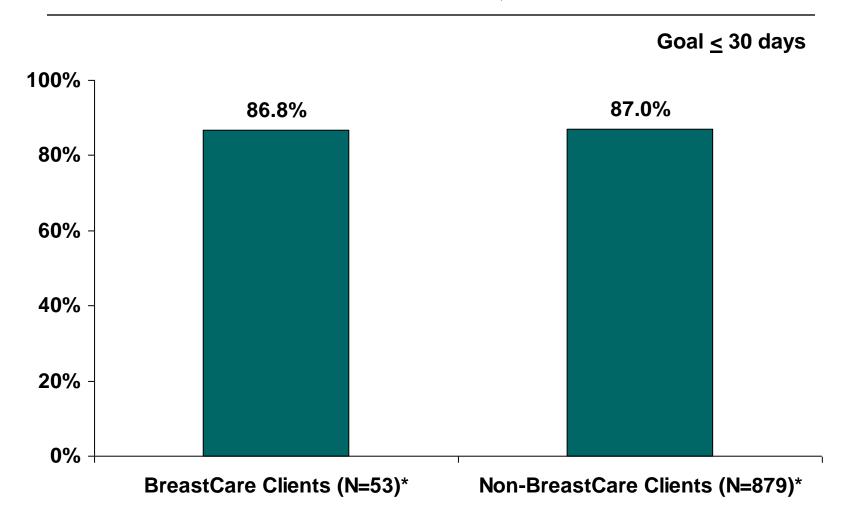


Figure 4. Average number of days from diagnostic biopsy to surgery for Breast Care and Non-BreastCare clients, 2005

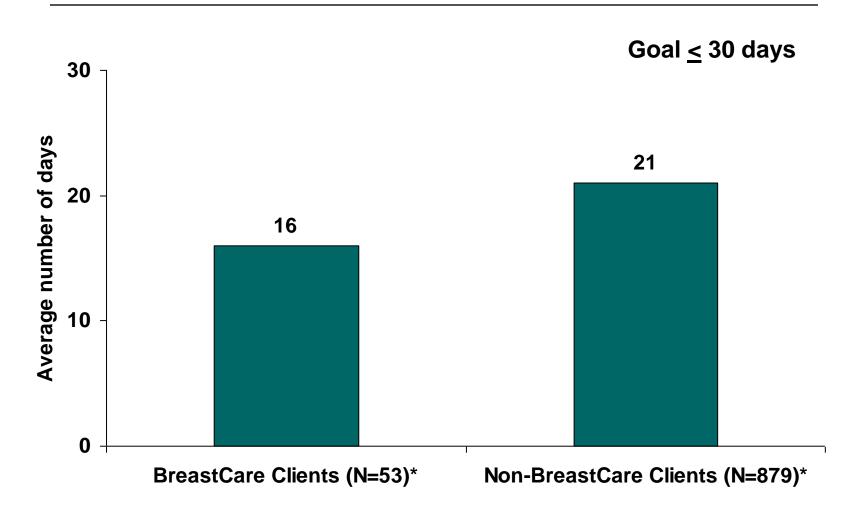


Figure 5. Breast conservation surgery rate by BreastCare and Non-BreastCare clients, 2005

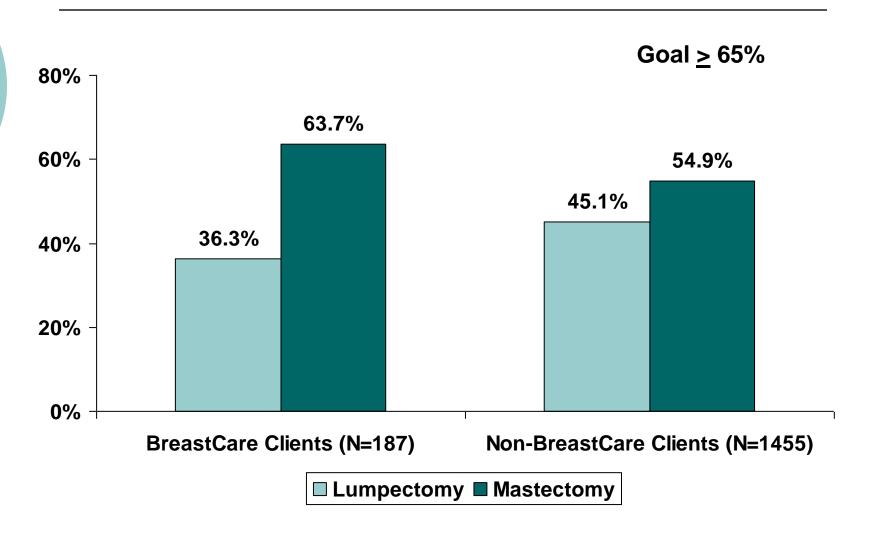


Figure 6. Time from surgery to chemotherapy (within 12 weeks from surgery) for BreastCare and Non-BreastCare clients, 2005

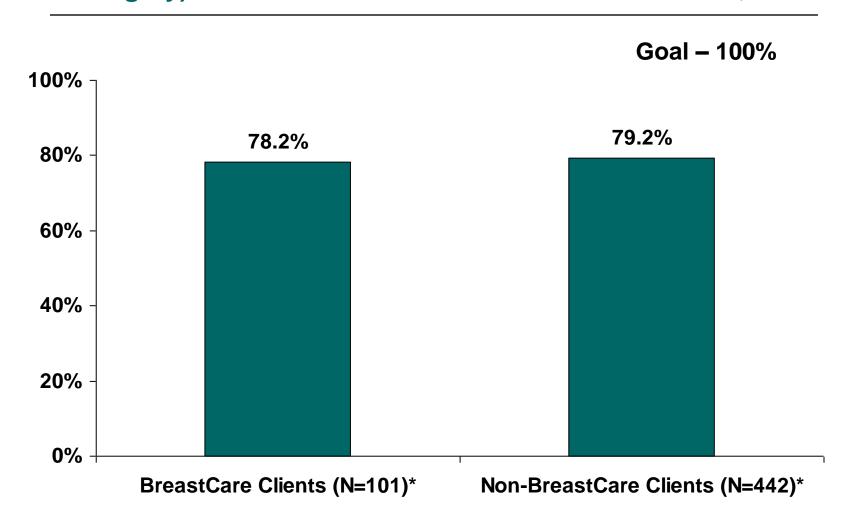


Figure 7. Breast cancer patients with tumors > 1cm or node positive will receive systemic therapy (chemotherapy or hormonal therapy) for BreastCare and Non-BreastCare clients, 2005

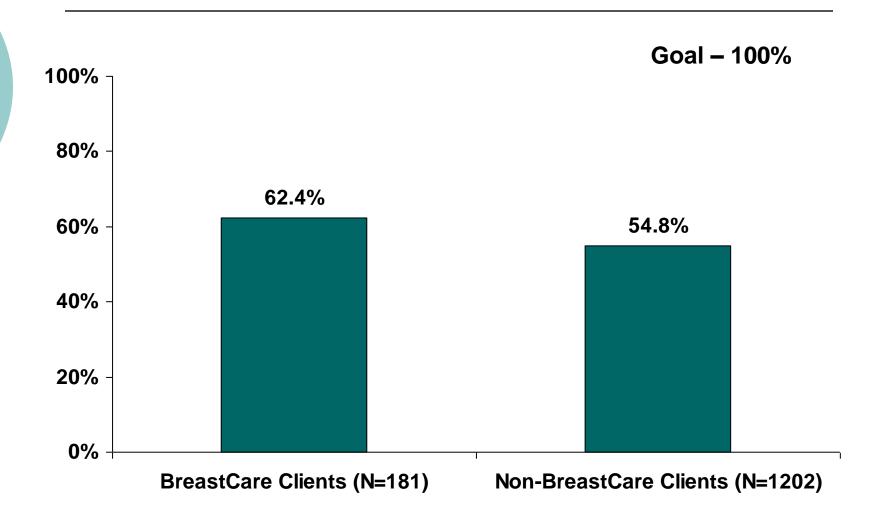
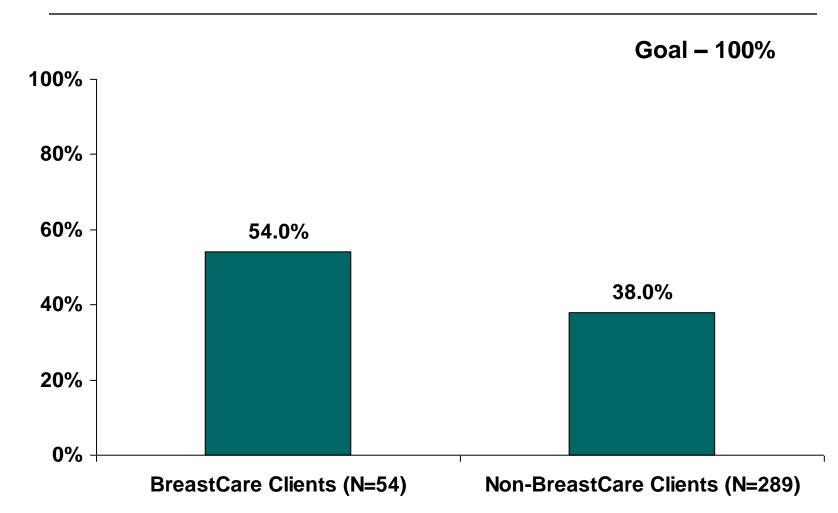


Figure 8. Breast cancer patients who undergo mastectomy with positive margins on surgical specimen OR tumor >5cm OR 4 or more positive nodes or T4 lesion receiving radiation therapy for BreastCare and Non-BreastCare clients, 2005



Cervical Cancer Quality Indicators

Clinical Outcome Measures

Figure 9. Stage at diagnosis of BreastCare and Non-BreastCare clients, 2005

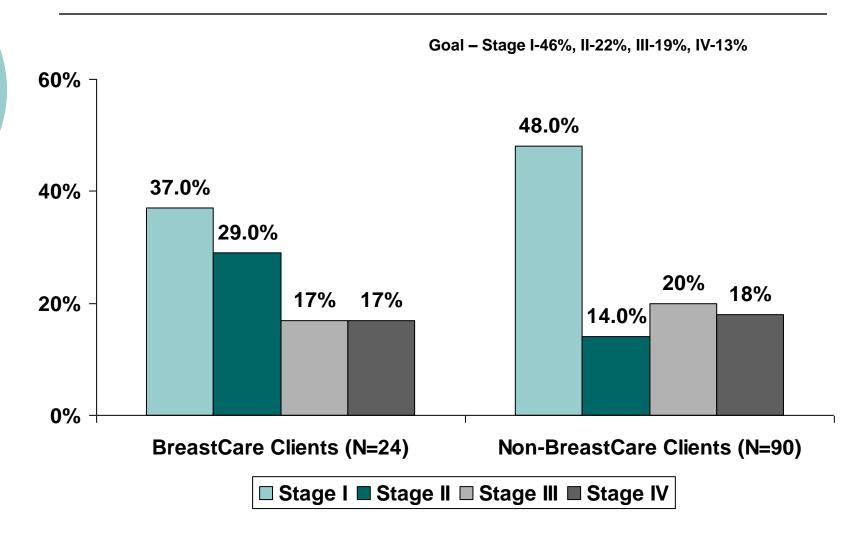


Figure 10. Time to initial cancer treatment (Within 60 days from date of diagnosis) for BreastCare and Non-BreastCare clients, 2005

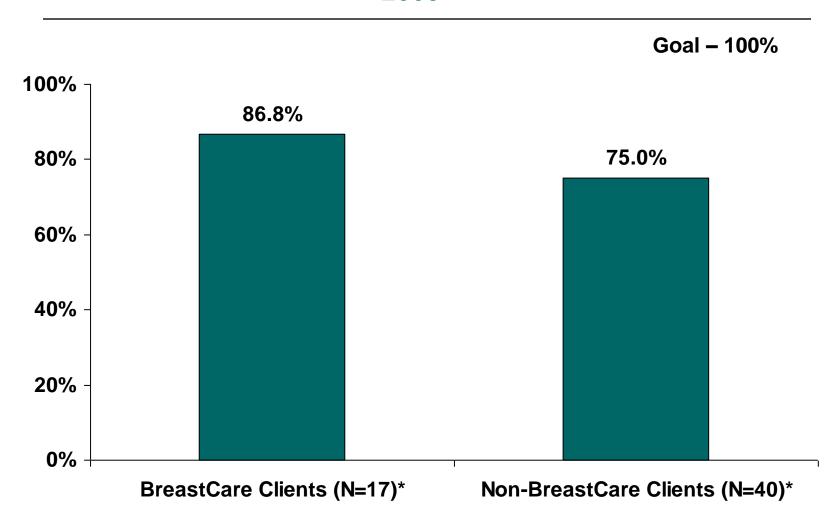


Table 1. Treatment modality by stage at diagnosis for BreastCare and Non-BreastCare Clients, 2005

Stage	BreastCare clients	Non- BreastCare Clients	Goal
I A - % receiving simple hysterectomy or conization	100%	78%	100%
I B - % receiving radical hysterectomy or chemoradiation, or a combination of both	25%	75%	100%
II - % receiving pelvic RT and brachytherapy and chemotherapy	100%	62%	100%
III - % receiving pelvic RT and brachytherapy and chemotherapy	100%	89%	100%
IV A - % receiving radiation therapy (and/or implanted radiotherapy and chemotherapy	0%	0%	100%

Implications

- BreastCare clients fare better than Non-BreastCare clients on many indicators.
- The BreastCare Advisory Board Plans to share the information with legislators and key stakeholders for additional resources to expand the program (Plan I A)
- Quality Indicators will be the way of future health care delivery and resource allocation.